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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/571,261	04/13/2006	Werner Bonrath	4662162	6120	
23117 NIXON & VA	7590 08/15/200 NDERHYE, PC	8	EXAMINER		
901 NORTH GLEBE ROAD, 11TH FLOOR			KOSACK, JOSEPH R		
ARLINGTON.	, VA 22203		ART UNIT	PAPER NUMBER	
			1626		
			MAIL DATE	DELIVERY MODE	
			08/15/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/571,261 BONRATH ET AL.

Office Action Summary	Examiner	Art Unit	1				
•	Joseph R. Kosack	1626					
The MAILING DATE of this communication app			ddress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. Lettersions of time may be available under the provisions of 37 CFR 1.1  18 Copyright of the provision of 18 CFR 1.1  18 Copyright of the provision of 18 CFR 1.1  19 Failure to reply within the act or extended period for reply will. By statute Any reply received by the Cffice later than three months after the mailing canned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	,				
Status							
1) Responsive to communication(s) filed on 13 A	oril 2006.						
2a) This action is FINAL. 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-19 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>16 and 17</u> is/are allowed.							
6)⊠ Claim(s) 1-15.18 and 19 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>09 March 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal F						
3) Information Disclosure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date 03/09/2006.	6) Other:	arom rapmement					

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#### DETAILED ACTION

Claims 1-19 are pending in the instant application.

### Priority

The claim to priority as a 371 filing of PCT/EP04/09749 filed on September 2, 2004, which claims priority to EP 03020875.5 filed on September 15, 2003 is granted in the instant application.

## Information Disclosure Statement

The Information Disclosure Statement filed on March 9, 2006 has been considered by the Examiner. The listing for the International Search Report has not been considered as the citation is not in proper format on the IDS and is not compliant with MPEP 609.

# Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-15 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for making compounds of Formula III with Application/Control Number: 10/571,261
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4a (Cy = cyclohexyl) . does not reasonably provide

enablement for the process with any other cross-metathesis catalyst. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these

claims.

The nature and scope of the invention is a process for making compounds of Formula III, and subsequently Formula V, comprising the step of reacting a compound of Formula I with a cross-metathesis catalyst. The cross-metathesis catalyst is defined in dependent claims to be a ruthenium catalyst, more narrowly as a catalyst of formulae VIIa, VIIb, or VIIc, and most narrowly as a catalyst of formula VIII.

The working examples presented in the disclosure are all drawn to the process where the catalyst is a compounds of Formula VIII. However, Applicant's own work which was published post-filing date (Malaise et al., Helvetica Chimica Acta, 2006, 797-812) only shows the process working with the catalyst being

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4a (Cy = cyclohexyl)

. An attempt was made to use the

related catalyst

with no success at

making the final product of Formula III. See pages 802-804, especially Scheme 5 and Table 2, entry 13. It is also noted that Formula VIII covers more than cyclohexyl groups attached to the phosphorus ring, but also include any 6 membered hydrocarbon with one degree of unsaturation (propylcyclopropyl, 3-hexene, etc...) Therefore, there is serious doubt that the process as claimed would work with any cross-metathesis catalyst, leading one of skill in the art to engage in undue experimentation in order to practice the full scope of the claimed invention.

## Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonohylousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imfeld (USPN 4.689.427).

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Imfeld teaches compounds of the formula:

protecting group.

Imfeld does not teach specifically a  $C_{2.5}$  of  $C_{3.5}$  alkanoyloxy for the R3 or R20 positions of formulae IV and X.

One of ordinary skill in the art uses esters, namely alkyl and benzyl esters, to protect hydroxyl groups in organic synthesis on a routine basis. Therefore, one of ordinary skill with the benefit of the disclosure of Imfeld would generate C<sub>2-5</sub>alkanoyloxy groups in order to act as the hydroxyl protecting group taught by Imfeld with a reasonable expectation of success.

## Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Omum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to

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be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 18 and 19 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 18 and 19 of copending Application No. 10/571,252. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are drawn to the same art specific subject matter.

The '252 teaches essentially the same compounds as the instant claims but with using a different name for the variable (R1 and R24 instead of R3 and R20.)

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

#### Conclusion

Claims 1-15, 18, and 19 are rejected. Claims 16 and 17 are currently found to be allowable

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph R. Kosack whose telephone number is (571)272-5575. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571)-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Golam M. M. Shameem, Ph.D./ Primary Examiner, Art Unit 1626

/Joseph R Kosack/ Examiner, Art Unit 1626